

## **COMPOSITE SURFACE ON A STAINLESS STEEL MATRIX**

### **ABSTRACT OF THE DISCLOSURE**

A composite surface having a thickness from 10 to 5,000 microns comprising a spinel of the formula  $Mn_xCr_{3-x}O_4$  wherein x is from 0.5 to 2 and oxides of Mn, Si selected from the group consisting of MnO,  $MnSiO_3$ ,  $Mn_2SiO_4$  and mixtures thereof which are not prone to coking and are suitable for hydrocarbyl reactions such as furnace tubes for cracking.